No. 8900120

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

AgriPro Biosciences Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS Y THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Rio Blanco'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington, D.C. *this* 31st *day of* December *in the year of our Lord one thousand nine hundred and* ninety-two.

Attest:

Kenneth A. Evans
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Edward Madigan
Secretary of Agriculture

APPROVAL EXPIRES 4-30-85

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)
Agripro Biosciences Inc.

2. TEMPORARY DESIGNATION
W81-162

3. VARIETY NAME
RIO BLANCO

4. ADDRESS *(Street and No. or R.F.D. No., City, State, and Zip Code)*
6700 Antioch
Shawnee Mission, Kansas 66204

5. PHONE *(Include area code)*
913-384-4940 (KS)
303-532-3721 (CO)

FOR OFFICIAL USE ONLY

PVPO NUMBER
8900120

6. GENUS AND SPECIES NAME
Triticum aestivum

7. FAMILY NAME *(Botanical)*
Gramineae

FILING
DATE Mar. 20, 1989
TIME ☐ A.M. ☐ P.M.

8. KIND NAME
Hard White Wheat

9. DATE OF DETERMINATION
~~1) 1981~~ June 1984
~~2) 1985~~ per letter of 25Nov1992

FEES RECEIVED
AMOUNT FOR FILING
$ 1800.00
DATE Mar. 20 1989

AMOUNT FOR CERTIFICATE
$ 200.00
DATE Dec. 7, 1992

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

12. DATE OF INCORPORATION
February 8, 1989

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

R.E. Heiner
6700 Antioch
Shawnee Mission, KS 66204
913-384-4940

OR

R. Bruns or C. Bruns
P.O. Box 30
Berthoud, CO 80513
PHONE *(Include area code)*: 303-532-3721

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety *(Request form from Plant Variety Protection Office.)*
d. ☒ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership. Exhibit F. Quality & Agronomics

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act.)*
☒ Yes *(If "Yes," answer items 16 and 17 below)* ☐ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☒ Foundation ☒ Registered ☒ Certified

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ Yes *(If "Yes," give date)*
☒ No

19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES ?
☐ Yes *(If "Yes," give names of countries and dates)*
☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT
R E Heiner

DATE
3-14-89

SIGNATURE OF APPLICANT

DATE

FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

1

8900120

EXHIBIT A.

ORIGIN AND BREEDING HISTORY OF RIO BLANCO

Rio Blanco is an F3 derived single plant selection made in 1979 from the cross OK11252A/W76-1226. The resulting plant row was observed in 1980 and advanced into preliminary yield trials as W81-162 in 1981. Rio Blanco is similar to its sister line Mesa but differs principally in that it is recessive for all three alleles for red seed color and is thus a hard white wheat.

Rio Blanco has been tested as experimental number W81-162 in AgriPro preliminary and replicated yield trials at numerous locations in the hard red winter wheat region of the Great Plains from 1981 thru 1987. Furthermore, Rio Blanco was tested in the Kansas State University Intra State Nursery (KIN) Trial in 1987 and was included in the 1988 Kansas State University Variety Performance Trial (VPT) at all 16 locations in Kansas courtesy of the Kansas Crop Improvement Association (KCIA). Rio Blanco was entered for first year testing in the 1988 Southern Regional Performance Nursery (SRPN) with the UDSA/ARS.

In 1984, 100 head-rows were grown in Berthoud, Colorado and 97 were selected to produce breeders seed. Approximately 1,440 pounds of breeder seed was produced in 1985. In 1987, approximately 21,550 pounds of Foundation seed was produced.

Rio Blanco is unifrom and stable. Less than .5% of the plants were rogued from the breeder seed field in 1985. Approximately 95% of the rogued variant plants were three to ten centimeters taller than Rio Blanco. Up to 1% total variant plants may be encountered in subsequent generations.

Given the nature of the three gene recessive white kernael trait a 2% of the red kernel variants may be encountered in subsequent generations. These red kernel variante are not to exceed 2% in subsequent generations.

EXHIBIT B.

NOVELTY STATEMENT

Rio Blanco is most similar to the hard red winter wheats Mesa and Trailblazer. However, it can be easily distinguished by the following morphological characteristics:

- Rio Blanco is a hard white wheat. Mesa and Trailblazer are hard red winter wheats.
- Rio Blanco has a midlong to long glume length. Trailblazer has a long glume length, (see statistical data page 1).

8900120

ANOVA TABLE FOR GLUME LENGTH

RIO BLANCO VS. TRAILBLAZER

SOURCE	DF	SS	MS
TOTAL	49	12.866	
VAR	1	6.193	6.19276
ERROR	48	6.673	0.13902

F-TEST= **44.545
CV= 0.476
LSD(5%)= 0.042

MEANS FOR EACH VARIETY

Rio Blanco= 8.5mm
Trailblazer= 9.2mm

**The difference in means of glume length are significantly different at the 1% probability level.

Rio Blanco

FORM APPROVED: OMB NO. 0581-0065

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Agripro Biosciences Inc.

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
6700 Antioch
Shawnee Mission, Kansas 66204

FOR OFFICIAL USE ONLY
PVPO NUMBER 8900120
VARIETY NAME OR TEMPORARY DESIGNATION

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:
[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:
[2] 1 = SPRING 2 = WINTER 3 = OTHER *(Specify)* _____
[2] 1 = SOFT 2 = HARD 3 = OTHER *(Specify)* _____
[1] 1 = WHITE 2 = RED 3 = OTHER *(Specify)* _____

3. SEASON - NUMBER OF DAYS FROM planting **TO:**
[2][3][2] FIRST FLOWERING
[2][3][5] LAST FLOWERING

4. MATURITY *(50% Flowering):*
[---] NO. OF DAYS *EARLIER* THAN .....
[---] 1 = ARTHUR 2 = SCOUT 3 = CHRIS
[0][2] NO. OF DAYS *LATER* THAN .....
[7] 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Mesa

5. PLANT HEIGHT *(From soil level to top of head):*
[0][6][9] CM. HIGH
[0][2] CM. TALLER THAN .....
[7] 1 = ARTHUR 2 = SCOUT 3 = CHRIS
[---] CM. SHORTER THAN .....
[---] 4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Mesa

6. PLANT COLOR AT BOOTING *(See reverse):*
[2] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHER COLOR:
[1] 1 = YELLOW 2 = PURPLE

8. STEM:
[1] Anthocyanin: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom: 1 = ABSENT 2 = PRESENT
[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT
[1] Internodes: 1 = HOLLOW 2 = SOLID
[0][5] NO. OF NODES *(Originating from node above ground)*
[1][6] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:
[2] Anthocyanin: 1 = ABSENT 2 = PRESENT
[2] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:
[1] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER *(Specify):* _____
[2] Flag leaf: 1 = NOT TWISTED 2 = TWISTED
[1] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
[1][2] MM. LEAF WIDTH *(First leaf below flag leaf)*
[2][3] CM. LEAF LENGTH *(First leaf below flag leaf):*

'Rio Blanco'

8900120

FORM GR-470-6 (REVERSE)

11. HEAD:

[3] Density: 1 = LAX 2 = DENSE 3=Middense

[1] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[1] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

[8.7] CM. LENGTH [9.0] MM. WIDTH

12. GLUMES AT MATURITY:

[2] Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.) average 8.4mm

[1] Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

[2] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

[1] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[2] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[2] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[1-3] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL ovate to elliptical

[1] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG midlong

[1] Brush: 1 = NOT COLLARED 2 = COLLARED

[---] Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[1] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

[6.3] MM. LENGTH [2.7] MM. WIDTH [30] GM. PER 1000 SEEDS

17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[1] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately Susceptible 4=Moderately Resistant

[4] STEM RUST (Races) 1988 field races

[4] LEAF RUST (Races) 1988 field races

[0] STRIPE RUST (Races) _____

[0] LOOSE SMUT

[1] POWDERY MILDEW

[0] BUNT

[2] OTHER (Specify) soil borne mosaic virus

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Moderately Susceptible 4=Moderately Resistant

[0] SAWFLY

[0] APHID (Bydv.)

[0] GREEN BUG

[0] CEREAL LEAF BEETLE

[0] OTHER (Specify) _____

HESSIAN FLY RACES: [3] GP [0] A [0] B [0] C [0] D [0] E [0] F [0] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Trailblazer	Seed size	Mesa
Leaf size	Mesa	Seed shape	Mesa
Leaf color	Trailblazer	Coleoptile elongation	Trailblazer
Leaf carriage	Trailblazer	Seedling pigmentation	Trailblazer

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz. 1963. Classification of Triticum Species and Wheat Varieties Grown in the United States. Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls. 1965. A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity. contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color ian should be used to determine the leaf color of the described variety.

6

EXHIBIT D.

ADDITIONAL BOTANICAL DESCRIPTION OF RIO BLANCO

Rio Blanco is a hard white wheat bred and developed by Agripro Biosciences Inc. Rio Blanco is a high yielding, medium maturity, short to intermediate semidwarf wheat with good milling and baking properties. It was tested as the experimental number W81-162.

In addition to its high yield potential Rio Blanco has been identified as having excellent test weight patterns, and excellent protection to soil borne mosaic virus. Rio Blanco is susceptible to powdery mildew.

Juvenile growth habit is semi-erect. Plant color at boot is green with an erect, twisted flag leaf. Auricle hairs and auricle anthocyanin are present. Head shape is tapering, middense, awned and head color is white at maturity. Glumes are glabrous, midlong to long and narrow with oblique shoulders and acuminate beaks. Seed shape is ovate to elliptical with rounded cheeks. Seed crease is narrow and shallow.

Rio Blanco's area of adaption based upon yield performance would include the major wheat growing areas of Colorado, Kansas, Oklahoma, northern Texas and southern Nebraska.

EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Agripro Biosciences Inc. is the applicant for protection in this case being:

a) The incorporated business (registered in Delaware) for and within which regular employees have bred the named variety.

b) The proprietory owner and intending commercial user of the variety.

8900120

EXHIBIT F.

QUALITY AND AGRONOMIC DATA

AGRIPRO WHEAT
HARD RED WINTER WHEAT

YEAR: 1988

			FLOUR/WHEAT QUALITY						BAKING QUALITY					
YEAR	VARIETY	LOC	WHT PROT	FLR PROT	CN HRD	FLR YLD	ASH	MIX TOL	ABS	MIX TIME	LOAF VOL	CRUMB GR	CRUMB TX	CRUMB COL
			14%mb	14%mb		%		R	%	min	cc	R	R	R
88	RIO BLANCO	SK	14.9	14.2	66	63.3	.471	6	63.0	3.50	1300	5	3	3
88	RIO BLANCO	NO	13.6	12.9	56	64.0	.428	3	63.0	4.00	1210	4	2	2
87	RIO BLANCO	WK	12.8	11.7	59	65.6	.433	5	64.0	5.00	1180	4	3	3
87	RIO BLANCO	GI	14.5	13.2	58	66.2	.000	5	66.0	3.25	1225	6	3	3
86	RIO BLANCO	NO	13.7	12.2	--	65.4	.000	4	64.0	4.75	1000	3	2	2
85	RIO BLANCO	SK	12.1	11.5	--	69.0	.000	5	60.0	4.50	980	3	2	2
85	RIO BLANCO	GK	11.9	10.3	--	68.0	.000	4	62.0	3.50	900	2	1	2
84	RIO BLANCO	SO	12.6	11.5	--	71.9	.378	4	63.0	4.25	990	2	3	2
84	RIO BLANCO	GI	14.8	12.0	--	71.6	.471	3	65.0	3.75	975	2	1	2
83	RIO BLANCO	SK	13.3	11.6	--	70.2	.000	4	61.0	4.25	875	2	2	1
82	RIO BLANCO	LK	14.2	13.6	--	72.2	.000	2	66.0	3.50	940	1	1	1
	AVERAGE		13.5	12.2	60	68.0	.440	4.1	63.4	4.02	1052	3.1	2.1	2.1
88	NEWTON	SK	14.1	13.3	65	60.4	.448	2	62.0	2.50	1080	4	4	3
88	NEWTON	NO	12.5	11.2	64	61.8	.417	1	60.0	3.75	1050	3	3	2
87	NEWTON	WK	12.2	11.4	57	63.3	.327	5	62.0	2.75	1010	2	3	3
87	NEWTON	GI	11.8	11.0	61	64.6	.000	5	63.0	3.00	1100	4	2	3
86	NEWTON	NO	12.0	10.9	--	63.7	.000	3	63.0	4.00	980	3	3	2
85	NEWTON	SK	12.6	11.7	--	67.9	.000	4	61.0	3.00	860	3	3	3
85	NEWTON	GK	11.9	10.2	--	67.3	.000	5	62.0	3.50	890	2	2	2
84	NEWTON	SO	12.0	10.8	--	69.6	.399	6	59.0	4.75	920	2	2	3
84	NEWTON	GI	14.0	11.5	--	70.3	.439	4	63.0	3.50	925	2	1	1
83	NEWTON	SK	11.9	10.0	--	69.0	.424	4	60.0	4.25	875	2	2	1
82	NEWTON	LK	12.4	11.6	--	69.7	.000	4	62.0	4.50	850	2	2	2
	AVERAGE		12.5	11.2	62	66.1	.410	3.9	61.6	3.59	958	2.6	2.5	2.3

R=RATINGS 1-2=EXCELLENT 3-4=GOOD 5=ACCEPTABLE 6-7=QUESTIONABLE 8-9=UNACCEPTABLE

RIO BLANCO MATURITY SUPPORT DATA

	88 Locations*			87 Locations*		X
Rio Blanco	3	3	4	3	4	3.4
Mesa	2	3	3	2	3	2.6
Trailblazer	5	5	5	5	5	5.0
Tam W 105	5	4	5	4	4	4.4

*rating scale: 1=very early 9=very late

RIO BLANCO HEIGHT SUPPORT DATA

	88 Locations (cm)			87 Locations (cm)		X
Rio Blanco	87	80	80	69	86	80.4
Mesa	82	85	75	70	85	79.4
Trailblazer	92	90	90	85	97	90.8
Tam W 105	94	105	88	82	89	91.6

*Note: Tam W 105 is an intermediate height semidwarf.

RELATIVE RANKINGS OF RIO BLANCO AND FOUR OTHER HRWW VARIETIES FOR VARIOUS AGRONOMIC AND PATHOLOGICAL TRAITS - 1988 SUMMARY

VARIETY	TEST WEIGHT	PHYSIOLOGICAL MATURITY	HEIGHT	SOIL BORNE MOSAIC VIRUS	SPINDLE STREAK MOSAIC VIRUS	POWDERY MILDEW
Rio Blanco	4	3	3	3	4	8
Abilene	3	4	3	2	4	8
Trailblazer	5	5	4	3	4	8
Mesa	2	2	2	2	3	8
Siouxland	4	5	6	8	7	2

The rankings in the table above are based on a scale of 1-9, where 1 and 9 represent the following extremes for the respective traits.

	1	9
Test Weight	high	low
Maturity	early	late
All disease & insect ratings	resistant	susceptible

AGRIPRO SEEDS
HARD WINTER WHEAT TRIAL SUMMARY
OVER LOCATIONS-OVER YEARS - 1988

YEARS: 85,86,87,88
VARIETIES: RIO BLANCO vs. ARKAN

	LOCS	YIELD Bu/Ac		LOCS	T.WT. lb/Bu	
STATES:		RIO B.	ARKAN		RIO B.	ARKAN
CO	4	105.3	107.3	4	60.3	59.8
KS	33	52.2	48.0	33	59.0	57.5
MO	1	55.9	60.8	0	0.0	0.0
NE	3	71.8	69.0	3	56.8	56.4
OK	2	51.4	50.9	2	57.9	58.3
TX	1	78.8	72.4	1	57.8	55.3
ALL	44	59.0	55.8	43	58.9	57.6

YEARS: 85,86,87,88
VARIETIES: RIO BLANCO vs. SIOUXLAND

	LOCS	YIELD Bu/Ac		LOCS	T.WT. lb/Bu	
STATES:		RIO B.	SIOUX		RIO B.	SIOUX
CO	3	93.5	99.7	3	60.0	59.6
KS	23	49.5	46.8	23	59.1	57.4
MO	1	55.9	62.3	0	0.0	0.0
NE	3	71.8	74.3	3	56.8	57.9
OK	2	51.4	53.5	2	57.9	58.9
TX	2	77.7	67.2	2	55.7	53.5
ALL	34	57.3	55.9	33	58.7	57.5

THIS DATA REPRESENTS ALL DATA AVAILABLE IN HRWW REGION FROM PUBLIC AND PRIVATE TRIALS, DATING BACK TO 1985. THESE TRIALS INCLUDE IRRIGATION, CONTINUOUS, AND SUMMER FALLOW.

13